Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

No. I &Final bill

Division: **Electricals (Yelahanka)**

Sub-Division: **Electricals**

Date.....2017

Bill Received No. Dated

Divisional / Sub Divisional

Cash Book Voucher No..... Dated.....

Schedule Docket No.

Job Code :-009-17-000054

D.R.No. :

Head of Account :**P 3110**

Name of Work : *Providing and Fixing of LED Street Lights in Ward No-09 in Byatarayanapura Division"*

Name of Contractor and Full Address:**SANSAM CONTROLS AND AUTOMATION.** **Job Code :-009-16-000013**

Reference to Agreement No:EE/Ele/YZ/WO/000002 /17-18

For SANSAM CONTROLS AND AUTOMATION

Date:23/10/2017

Certified that the measurements were taken by me on 30/10/17 and recorded of Pages 311446 to 452 of measurement Book No. 3115/17-18 and that the work is satisfactorily executed.

Contractor

Proprietor

Officer-in-charge of work

Certified that the measurement were taken by me on 30/10/17 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

II Memorandum of Payment

1) Total value of work done or supplies made as per account within	Bill:-	1H,63,520=00
2) Deduct amount to be held in reserve being .....percent Rs.....	IT 2%	29,270=00
3) " Balance	SGST 1%	1H635=00
4) Deduct Payment:	CGST 1%	1H635=00
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... adjusted towards cash advance recovery of	LWC 1%	14635=00
	CBFO 1%	1464=00
b) Payments Now made } cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	deductions	74639=00
	Cheque	13,88,881=00
5) Balance being unpaid value of work done held in reserve.		
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.		
7) Net amount due to or from Contractor unadjustments items.		
8) Advance to Contractor for materials brought to site (as detailed) within.		
9) Value of Government materials supplied.		
Total amount adjusted -		

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

For SANSAM CONTROLS AND AUTOMATION

Contractor's Signature

Proprietor

Witness

1.

2.

Proprietor

(For use in the Office)

Dated Signature of Contractor

Stamp

Paid by me by Cheque No.....Dated.....

Cash Rs.....Dated.....

Initials of Officer making payment

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ ಕ್ರ.ಸಂ.P3110..14th Finance grants

ರೂ:11463520=00 ಮಾಡಿ ಪ್ರಕಟಿಸಿದೆ

ರೂ:13,88,881=00

ರೂ:74,639=00 ಪಾವತಿಸಿದೆ

Executive Engineer

ಲೆಕ್ಕ ಅಧೀಕ್ಷಕರು

ಕಾ.ಪಾ.ಅ.(ವಿ) ಯಲಹಂಕ ವಲಯ

Sl. No	Description of Item	Uni
	Name Of Work:-Providing and Fixing of LED Street Lights in Ward No-09 in Byatarayanapura Division.	
1	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.LED Streetlight 65watts	each
2	Supplying & fixing of 32 mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete. Using 32mm dia G.I pipe	Each
3	Wiring for lighting / power circuit using one of pvc insulated 1100v grade stranded aluminum unsheathed wire single core cable in open or concealed system of wiring as per IS - 694 : 19904sq mm	Per Mtr
4	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A.2 X 25 + 1 X 25 SQ.MM	Per Mtr
5	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR	Per Mtr
6	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 3.5 core 25 sqmm	Per Mtr
7	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. b)25sqmm to 75 sqmm	Per Mtr
8	Open Conduit Systeme: Supplying heavy gauge PVC conditpipe,,,,,,,,,, dia confirming to IS 2509 with suitable size bends,junction boxes, adhesibve paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or plug incase of brick walls and cement plastering damaged portionusing heavy gauge saddles at an interval of 700mm using NF screws.c)32mm dia 2.5mm thick	Per Mtr
9	Supplying and fixing angle iron frame work fabricated out of M.S angle iron... and M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)50X50X6 mm	mtr
10	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.25 sqmm Long Barrel	each
11	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire 8 SWG	mtrs
12	Supplaying of Spiral Earth Electrode	Nos
13	Labour charges for Spiral Earth Electrode	Nos

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate	Amount	Qty	Cost	
		6	18300.00	109800.00	6	109800.00	
		6	870.00	5220.00	6	5220.00	
		30	6.00	180.00	30	180.00	
		175	138.00	24150.00	175	24150.00	
		175	9.00	1575.00	175	1575.00	
		198	155.00	30690.00	198	30690.00	
		198	15.00	2970.00	198	2970.00	
		0	98.00	0.00	0	0.00	
		25	259.00	6475.00	25	6475.00	
		90	19.00	1710.00	90	1710.00	
		0	19.00	0.00	0	0.00	
		0	205.00	0.00	0	0.00	
		0	53.00	0.00	0	0.00	

14	**Thiristor based single/ Three phase smart street light control and monitoring system** Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit (Mother board) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching 5) Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure.7) Transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components.	Nos
	Total Rs	

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

Asst. Executive Engineer (Elec.)
Yelahanka Sub-Division
Bruhat Bangalore Mahanagara Palike

		25	51230.00	1280750.00	25	1280750.00	
				1463520.00		1463520.00	